

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

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Device connector front mounting, Power, 4-position, Socket, straight, M12-Standard, coding: T, on free cable end, Front mounting, M16 x 1.5, Individual wires, cable length: 0.5 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238902

## Your advantages

- For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- Mechanical tightening limitation for long-term-stable gasket
- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

Item number	1411606
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCFG
Catalog page	Page 283 (C-2-2019)
GTIN	4046356936200
Weight per piece (including packing)	55.733 g
Weight per piece (excluding packing)	45 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
General	Contact connection method: Crimp connection

### Mounting

Mounting type	Front mounting M16 x 1.5 XL version, tightening limitation
Assembly note	XL version, tightening limitation

### Product properties

Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	T
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Bare Cu litz wires

### Electrical properties

Rated surge voltage	1.5 kV
	1.5 kV AC/DC
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	63 V DC
Nominal current $I_N$	12 A

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Test voltage	1.5 kV
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## Connection data

### Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	1.31 mm <sup>2</sup>
Tightening torque	0.8 Nm ... 1.3 Nm (Installation-side)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	T

### Connection 2

Head design	free cable end
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## Cable/line

Cable length	0.5 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2 mm
Single wire, color	black, brown, blue, white
Cable cross section	1.31 mm <sup>2</sup>
Conductor material	Bare Cu litz wires
AWG signal line	16
Material wire insulation	mPPE
Halogen-free	yes
Flame resistance	in acc. to UL 1581 VW1
Ambient temperature (operation)	-40 °C ... 85 °C (without mechanical actuation)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 105 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

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1411606

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Degree of protection	IP67
	IP65/IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 105 °C (Cable, flexible installation)
	-40 °C ... 105 °C (cable, fixed installation)

## Standards and regulations

Flame resistance	in acc. to UL 1581 VW1
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### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

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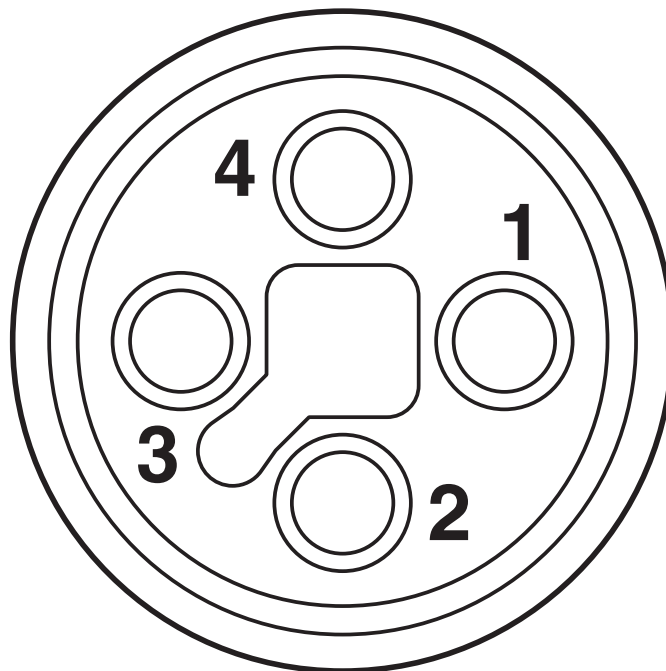


1411606

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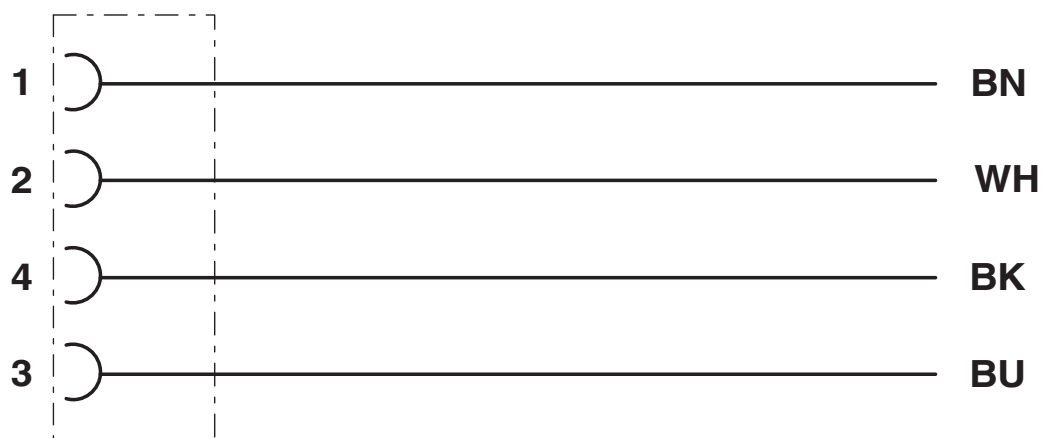
## Drawings

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view


Circuit diagram




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Approvals

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<div> <b>cUL Recognized</b> Approval ID: E468743-20190917</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	63 V	12 A	16 - 16	-

<div> <b>UL Recognized</b> Approval ID: E468743-20190917</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	63 V	12 A	16 - 16	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	0d0deef6-3327-4f31-bda4-1044e7e391bd



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## Accessories

### SACC-E-MU-M16 - Flat nut

1504097

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Flat nut, Screw mounting, M16 x 1.5, Alternative product in accordance with  
RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239863



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